

January 1997

## **IMPORT REQUIREMENTS OF ARGENTINA FOR BOVINE EMBRYOS EXPORTED FROM THE UNITED STATES**

The embryos must be accompanied by a U.S. Origin Health Certificate issued by a veterinarian authorized by the U.S. Department of Agriculture (USDA) and endorsed by a Veterinary Services (VS) veterinarian. The certificate shall contain the name and address of both the consignor and consignee and complete identification of the embryos to be exported.

### **I. REQUIREMENTS FOR THE TREATMENT AND IDENTIFICATIONS OF THE EMBRYOS**

1. The veterinarians of the embryo collection team are accredited by the USDA and at least one member of the team is certified by the American Embryo Transfer Association (AETA).
2. The biological products of animal origin utilized in the collection, processing, washing, and freezing of the embryos for exportation are free of live microorganisms, and antibiotics were added according to the recommendations of the International Embryo Transfer Society (IETS).
3. The materials and instruments used for the collection, manipulation, washing, freezing, preservation, and transportation of the embryos were sterilized according to the recommendations of the IETS manual.
4. The embryos have been examined before and after the washing procedures and before freezing under a microscope with 50X magnification and with movement in the culture fluid, to determine that the surface and the zona pellucida were intact and free of any adherent material.
5. The embryos were washed according to the recommendations of the IETS and were transferred in groups of 10 or less, after 10 washings in sterile media, using sterile micropipettes for each washing.
6. Each washing of the embryos constituted a dilution of 1/100 of the previous washing and only embryos from the same donor were washed in the same media.
7. The ampoules/straws shall be identified according to the following:
  - a. number assigned to the transferring organization,
  - b. breed code,

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- c. registration number of the donor cow,
  - d. freeze date,
  - e. number of the individual ampoule/straws, and quantity and the quality of the embryos contained therein.
8. The racks/canes shall be labelled as follows:
- a. embryo transfer business or organization code,
  - b. freeze date,
  - c. name and registration number of the sire and dam.

## II. SANITARY REQUIREMENTS OF THE DONOR SIRE

1. The semen utilized for insemination of the donor cow meets the import health requirements of Argentina or the requirements of Certified Semen Services (CSS) or its equivalent.

## III. SANITARY INFORMATION OF DONOR COW

1. The United States, as well as the country of origin of the donor sire, is free of rinderpest, Rift Valley fever, lumpy skin disease, foot-and-mouth disease (Types SAT 1, 2, 3 and Asia 1), and bovine spongiform encephalopathy.
2. During the 2 years prior to the collection of the embryos, there have been no officially confirmed cases of pseudorabies (Aujeszky's), bluetongue, malignant catarrhal fever, or Q fever on the farm of origin of the donor cow and/or at the ET center.
3. During the 90 days prior to the collection of the embryos, there have been no officially confirmed cases of infectious bovine rhinotracheitis (IBR), bovine virus diarrhea (BVD), vesicular stomatitis, parainfluenza 3, bovine leukosis, vibriosis, trichomoniasis, or other infectious or contagious diseases at the establishment of origin of the donor cow or at the ET center.
4. The donor cow originates from an establishment free of brucellosis and tuberculosis.
5. In the 24 hours prior to and in the 30 days after collection of the embryos for exportation, there were no officially reported cases in the donor females or other contact animals of the diseases previously mentioned.
6. For micromanipulated embryos, the following certification statement must be fulfilled:

The embryos were examined over their entire surface under a microscope at a minimum 50 X magnification to ensure that the zone pellucida was intact and free of any adherent material *prior* to sexing, micromanipulation or freezing.

7. Testing Requirements:

A. The donor cow(s) was tested either at the time of collection or within 180 days after collection with negative results to the following diseases:

- a. \*Brucellosis
  - i. Standard tube test at a 1:50 dilution (30 IU), or
  - ii. Standard plate test at a 1:50 dilution (30 IU), or
  - iii. Complement fixation (CF) test at a 1:10 dilution
- b. \*Infectious bovine rhinotracheitis
  - i. ELISA test
- c. Vesicular stomatitis (VS)
  - i. ELISA test, or
  - ii. Serum neutralization (SN) test at a 1:8 dilution
- d. \*Blue tongue (BT)
  - i. Agar gel immunodiffusion test, or
  - ii. ELISA test

\*The tests for brucellosis, IBR, and BT may be omitted if the embryos are washed in trypsin following the guidelines of the IETS, and a certification stating this appears on the health certificate.

B. In cases where results are positive to any or all of the above tests, and the embryos were not trypsin treated, an analysis should be made according to IETS standards for those diseases as follows:

- a. Collection and culture of flushing fluids
- b. Culture of washing fluids from the 7th - 10th washes
- c. Culture of degenerate embryos or unfertilized eggs

7. The U.S. Origin Health Certificate shall state the type of tests conducted, dates of the tests, embryo collection date, the washings utilized, treatment of embryos made, names of the donor animals, place of origin, and name and address of the collection center or farm.

## OTHER INFORMATION

The Division of Animal Health in Argentina is requesting that the health certificate be presented in bilingual form. This office developed a bilingual certificate (APPENDIX 1) which may be used for exporting bovine embryos to Argentina.

## APPENDIX 1

### HEALTH CERTIFICATE (*CERTIFICADO DE SALUD*) BOVINE EMBRYOS (*EMBRIONES BOVINOS*)

#### Part A: IDENTIFICATION *IDENTIFICACION*

1. Species and Commodity: BOVINE EMBRYOS  
*Producto*
  2. Exporting Country: UNITED STATES OF AMERICA  
*País exportador*
  3. Country of destination: ARGENTINA  
*País de destino*
  4. Issuing Authority: UNITED STATES DEPARTMENT OF AGRICULTURE  
*Autoridad responsable*
- 5a. Donor Identification:  
*Identificación de los donadores:*

Registered      ID<sup>1</sup>      Breed (*Raza*)      Sire (*Macho*)      Dam (*Hembra*)  
Name (*Nombre*  
*de registro*)

Health Certificate No \_\_\_\_\_  
(Valid only w/ USDA seal)

5b. Straw ID/Markings  
*Identificación de las pajuelas*

Registration No. or code of ET Member/Team (No. <i>de registro del equipo</i> )	No. of straws & No. and quality of embryos <i>per straw (Número de pajuelas y cantidad y calidad)</i>	Freeze date <i>(fecha de congelación)</i>	Straw ID <i>(Identificación de la pajuela)</i>
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6. Name of exporter \_\_\_\_\_  
*Nombre del exportador*

Address: \_\_\_\_\_  
*Dirección*  
\_\_\_\_\_  
\_\_\_\_\_

7. Address of collection premises:  
*Dirección del lugar de recolección*  
\_\_\_\_\_  
\_\_\_\_\_

8. Destination of the Embryos:  
*Destinación de los embriones:*

a) Name of Consignee: \_\_\_\_\_  
*Nombre del consignatario*

b) Address: \_\_\_\_\_  
*Dirección*  
\_\_\_\_\_  
\_\_\_\_\_

## PART B - CERTIFICATIONS

### A. EMBRYO PROCESSING (*MANEJO DE LOS EMBRYONES*)

1. The veterinarians of the embryo collection team are accredited by the USDA and at least one member of the team is certified by the American Embryo Transfer Association (AETA).  
*El equipo de Veterinarios responsables de la recuperación procesamiento y almacenamiento de los embriones son acreditados por USDA, y (el equipo) es miembro con acuerdo de la American Embryo Association (AETA);*
2. The biological products of animal origin utilized in the collection, processing, washing, and freezing of the embryos for exportation are free of live microorganisms, and antibiotics were added according to the recommendations of the International Embryo Transfer Society (IETS).  
*Los productos biológicos de origen animal utilizados en la recolección procesado, lavado, o conservación de embriones, se encuentran libres de microorganismos vivos, habiéndose agregado antibióticos de acuerdo a la Sociedad Internacional de Transferencia Embrionera (IETS);*
3. The materials and instruments used for the collection, manipulation, washing, freezing, preservation, and transportation of the embryos were sterilized according to the recommendations of the IETS manual.  
*El material e instrumental utilizado para la recolección, manipuelo, lavado, congelación, conservación y transporte de embriones han sido esterilizados de conformidad con las recomendaciones de la I.E.T.S.;*
4. The embryos have been examined before and after the washing procedures and before freezing under a microscope with 50X magnification and with movement in the culture fluid, to determine that the surface and the zona pellucida were intact and free of any adherent material.  
*Los embriones han sido examinados antes y después de las tareas de lavado y antes de la congelación, bajo un aumento de 50X, haciéndolos rodar sobre el fondo de una placa de cultivo, comprobándose que la superficie y la zona pelúcida de los mismos se encuentra intactos y exentos de cualquier material adherido;*
5. The embryos were washed according to the recommendations of the IETS and were transferred in groups of 10 or less, after 10 washings in sterile media, using sterile micropipettes for each washing.  
*Los embriones han sido lavados de acuerdo a las recomendaciones de la I.E.T.S., transfiriéndose en grupos de diez (10) o menos, a través de diez (10) cambios (lavados) en medio estéril, utilizándose en cada oportunidad una nueva micropipeta estéril;*
6. Each washing of the embryos constituted a dilution of 1/100 of the previous washing and only embryos from the same donor were washed in the same media.  
*Cada paso de lavado constituyó una dilución de 1:100 del lavado previo, efectuándose en forma exclusiva para los embriones de una misma donante;*

7. \*The embryos were washed in trypsin following the recognized guidelines of the IETS.  
*Los embriones fueron lavados en tripsina según las recomendaciones del IETS.*
8. In the case of micromanipulated embryos:  
 The embryos were examined over their entire surface under a microscope at a minimum 50 X magnification to ensure that the zone pellucida was intact and free of any adherent material *prior* to sexing, micromanipulation or freezing.  
*Cuando se trata de embriones micromanipulados, estos fueron examinados en toda su superficie, a una amplificación no menor de 50X para asegurar que la zona pelúcida estaba intacta y libre de material adherente antes del sexaje, micromanipulación o congelación.*

#### B. SANITARY REQUIREMENTS OF THE DONOR SIRE

*Información Sanitaria del Toro Dador de Semen*

1. The semen utilized for insemination of the donor cow meets the import health requirements of Argentina or the requirements of Certified Semen Services (CSS) or its equivalent.  
*El semen utilizado proviene de un reproductor que responde a los requerimientos aprobados oficialmente de acuerdo al sistema de Servicio de Semen Certificado (Certified Semen Services - CSS) o su equivalente;*

#### C. SANITARY INFORMATION OF DONOR COW

*Información Sanitaria de la Hembra Dadora de Embriones*

1. The United States, as well as the country of origin of the donor sire, is free of rinderpest, Rift Valley fever, lumpy skin disease, foot-and-mouth disease (Types SAT 1, 2, 3 and Asia 1), and bovine spongiform encephalopathy.  
*Los Estados Unidos y el país de origen de los animales dadores de óvulos/embriones, como así también del semen utilizado se encuentra oficialmente libre de Peste Bovina, Fiebre del Valle del Rift, Dermatosis Nodular Contagiosa y Fiebre Aftosa a virus exóticos (SAT1, SAT2, SAT3 y Asia 1);*
2. During the 2 years prior to the collection of the embryos, there have been no officially reported cases of pseudorabies (Aujeszky's), bluetongue, malignant catarrhal fever, or Q fever on the farm of origin of the donor cow and/or at the ET center.  
*Durante los dos (2) años precedentes a la recolección de los embriones, no se comprobó oficialmente casos de Enfermedad de Aujesky, Lengua Azul, Fiebre Catarral Maligna y Fiebre "Q" en el Establecimiento de Origen de la dadora o en el lugar donde se concentró para las tareas de transferecia de embriones;*
3. During the 90 days prior to the collection of the embryos, there have been no officially confirmed cases of infectious bovine rhinotracheitis (IBR), bovine virus diarrhea (BVD), vesicular stomatitis, parainfluenza 3, bovine leukosis, vibriosis, trichomoniasis, or other infectious or contagious diseases at the establishment of origin of the donor cow or at the ET center.  
*Durante los noventa (90) días precedentes a la recolección de los embriones, no se comprobó oficialmente casos de Rinotraqueítis Infectiosa Bovina (IBR), Diarrea Viral Bovina, Estomatitis Vesicular, Parainfluenza-3, Leucosis Enzootica Bovina, Vibriosis, Tricomoniasis u otras enfermedades infectocontagiosas, en el establecimiento de origen de la dadora o en el lugar donde se concentró para las tareas de transferencia de embriones;*
4. The donor cow originates from an establishment free of brucellosis and tuberculosis.  
*Las hembras donantes son originarias de establecimientos libres de Brucellosis y Tuberculosis;*
5. In the 24 hours prior to and in the 30 days after collection of the embryos for exportation, there were no officially reported cases in the donor females or other contact animals of the diseases previously mentioned.  
*En las veinticuatro (24) horas anteriores ni en los treinta (30) días posteriores a la recolección de los embriones para la exportación, no se registró oficialmente en las hembras dadoras u otros animales que convivieron con los donantes, casos de las enfermedades precedentemente citadas.*

PART C - TESTING (*PRUEBAS*)

The donor cow(s) was tested either at the time of collection or within 180 days after collection with negative results to the following diseases:

<u>DISEASE/Enfermedad</u>	<u>TEST/Prueba</u>	<u>DATE/Fecha</u>
1. *Brucellosis:	SPT or STT at the 1:50 dilution, OR complement fixation (CF) test (1:10) <i>Prueba de tubo ó placa a dilución (1:50)</i> _____ ó prueba de fijación de complemento(1:10) _____	
2. *Bluetongue:	AGID; <i>Lengua azul</i> OR cELISA;	_____
3. *Infectious Bovine Rhinotracheitis <i>Rinotraqueítis infecciosa</i>	ELISA	_____
4. Vesicular stomatitis: <i>Estomatítis vesicular</i>	SN (at 1:8); seroneutralización (a 1:8); OR ELISA ó ELISA.	_____

\*The tests for brucellosis, IBR, and BT may be omitted if the embryos are washed in trypsin following the guidelines of the IETS, and a certification stating this appears on the health certificate. (Las pruebas para brucellosis, IBR y lengua azul pueden ser omitidas si los embriones fueron lavados en tripsina siguiendo las recomendaciones de la IETS, y certificación del tratamiento aparece en el certificado de salud.)

FEDERAL ENDORSEMENT  
*AUTORIZACION FEDERAL*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Type or Print - Name and Address  
of Issuing Accredited Veterinarian  
*Nombre y dirección del veterinario  
acreditado*

Type or Print - Name of Endorsing  
Federal Veterinarian  
*Nombre del Veterinario Federal*

\_\_\_\_\_  
Date issued and signature of  
Accredited Veterinarian  
*Fecha y firma del veterinario  
acreditado*

(\_\_\_\_\_) \_\_\_\_\_  
Date Endorsed and Signature -  
Endorsing Federal Veterinarian  
*Fecha y firma del Veterinario Federal*  
(Valid only if USDA Seal Appears over Signature) *Válido únicamente con sello  
de la USDA*.

1 . Registration number, ear tag, tattoo or other official identification  
*Número de registro, arete, tatuaje, u otra identificación oficial*